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(54) Title: **PLATINUM COMPLEXES FOR DIFFERENTIAL MASS LABELING**

(57) Abstract: The invention relates to the use of a platinum complex for creating a defined shift in the molecular mass of said entity in order to facilitate mass spectrometric analysis of said entity, to methods for rendering chemical or biological entities distinguishable by mass spectrometry as well as to methods for mass spectrometric analysis of the chemical or biological entities. Further, the present invention relates to a set of at least two platinum complexes of different molecular mass, to platinum complexes comprising different stable isotopes, to chemical or biological entities obtained by a method of the invention and to a kit of parts supporting the use and/or methods of the invention